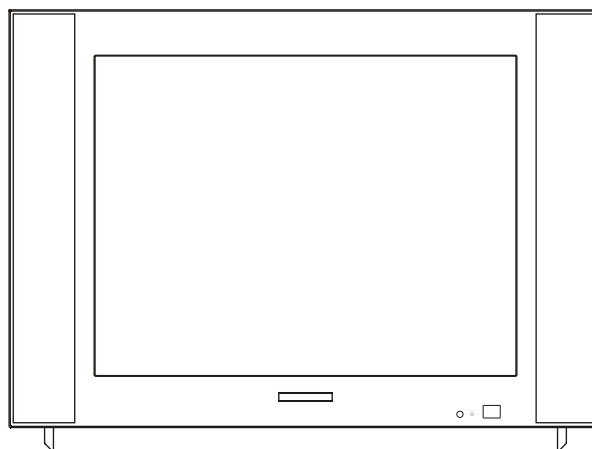


DENVER

www.denver-electronics.com

29" COLOUR TELEVISION

- ON SCREEN DISPLAY
- REMOTE CONTROL
- HYPERBAND TUNER
- PERITELEVISION(SCART JACK)



DTX-2910
MANUAL

Remarks:

Customer please confirm all the artwork within 2-3 days. After your confirmation, the factory needs 10-15 days to complete the production. Please be noted that late artwork confirmation will cause shipment delay accordingly.

Skyworth Multimedia International Co.,Ltd

Description: MANUAL	
Job No. 42089	Brand Name: DENVER
Ref: 29SI	P/No.
REV:0	Scale:
Engineering Dept:	
Artwork By:	Date: 02-18-04
Checked By:	Date:
Approved By:	Date:

5P60

SPECIFICATIONS

Receiving System	: BG , DK , I
Colour System	: PAL / NTSC Playback
Picture Tube	: 74cm (29") diagonal
Ext. Antenna	: 75 Ohm Coaxial Cable
Ext. In/Out	: Peritelevision(Scart Jack),Side AV-In , S-Video
Speaker	: 8 Ohm(12W) x 2
Audio Output(MAX)	: 1KHZ 0.5Vrms, 6Wx2
10% THD Audio Output Power	: 1KHZ 0.5Vrms, 6Wx2
Power Consumption	: AC 150-240V 50/60Hz, 150W MAX
Standby Power Consumption	: AC 220V 50/60Hz, 5W MAX
Dimension	: 786(W) x500(D) x 585(H)mm
Net Weight	: 46 kg

REMOTE CONTROL

Transmitting System	: Infrared
Power Supply	: DC 3V (1.5 x 2)
Dimension	: 55(W) x 184(L) x 34(D)mm
Net Weight	: 130 g

Design and specifications are subject to change without prior notice.

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INTRODUCTION

Thank you very much for your purchase of this product-the most natural Colour Television Receiver.

To enjoy your set to the full from the very beginning, read this manual carefully and keep it handy for ready reference.

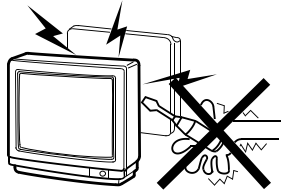
INSTALLATION

- Locate the receiver in the room where direct light does not strike the screen.
Total darkness or a reflection on the picture screen can cause eyestrain.
Soft and indirect lighting is recommended for comfortable viewing.
- Allow enough space between the receiver and the wall to permit ventilation.
- Avoid excessively warm locations to prevent possible damage to the cabinet or premature component failure.
- This TV receiver can be connected to AC 150-240 Volts. 50/60 Hz. Never connect to DC supply or any other power supply.
- Do not install the receiver in a location near heat sources such as radiator, air ducts, direct sunlight, or in a place somewhere like close compartment and close area.
- Do not cover the ventilation openings when using the set.

CAUTION

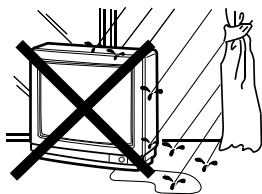
Never tamper with any components inside your set, or any other adjustment controls not mentioned in this manual. All television receivers are high voltage instruments. Your PICTURE TUBE is highly evacuation. If broken, glass fragments will be violently expelled. Scratching, chipping or undue pressure is dangerous and should be avoided. When you clean up dust or stick of a water drop on the PICTURE TUBE FACE or CABINET, the power cord should be pulled out from the plug receptacle, then wipe the receiver with dried soft cloth. During thunder and lightning, unplug the power cord and antenna cord to prevent your TV set from damage. All "inside work" on your receiver should be performed only by the TV service personnel.

WARNINGS and CAUTIONS



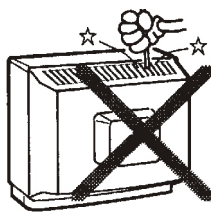
Warning

High voltages are used in the operation of this television receiver. Do not remove the cabinet back from your set. Refer servicing to qualified service personnel.



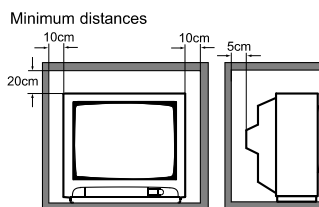
Warning

To prevent fire or electrical shock hazard, do not expose the television receiver to rain or moisture.



Warning

Do not drop or push objects into the television cabinet slots or openings. Never spill any kind of liquid on the television receiver.



Caution

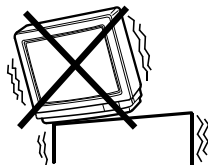
If the television is to be built into a compartment or similarly enclosed, the minimum distances must be maintained. Heat build-up can reduce the service life of your television, and can also be dangerous.

WARNINGS and CAUTIONS



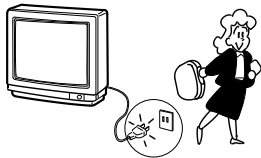
Caution

Never stand on, lean on or push suddenly the television or its stand. You should pay special attention to children. Serious injury may result if it should fall.



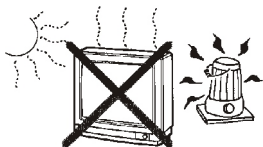
Caution

Do not place your television on an unstable cart, stand, shelf or table. Serious injury to an individual, and damage to the television, may result if it should fall.



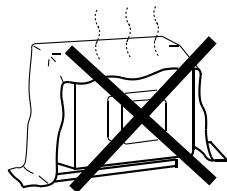
Caution

When the television receiver is not used for an extended period of time, it is advisable to disconnect the AC power cord from the AC outlet.



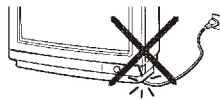
Caution

Avoid exposing the television receiver to direct sunlight and other source of the heat. Do not stand the television receiver directly on other produces which give off heat. E.g. video cassette players. Audio amplifiers.



Caution

Do not block the ventilation holes in the back cover. Adequate ventilation is essential to prevent failure of electrical component.

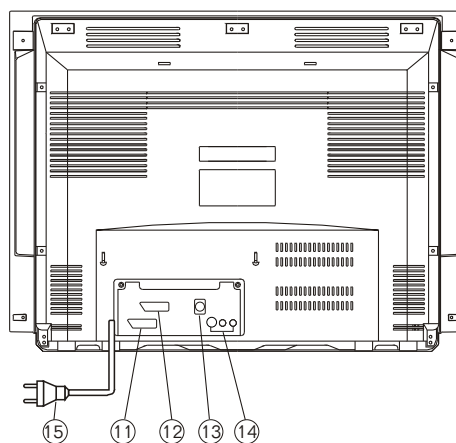
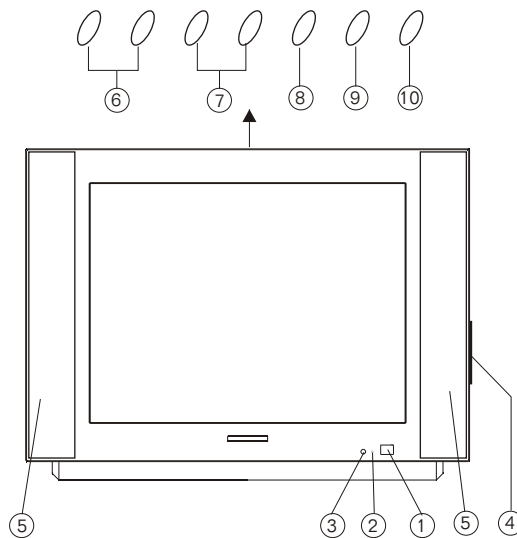


Caution

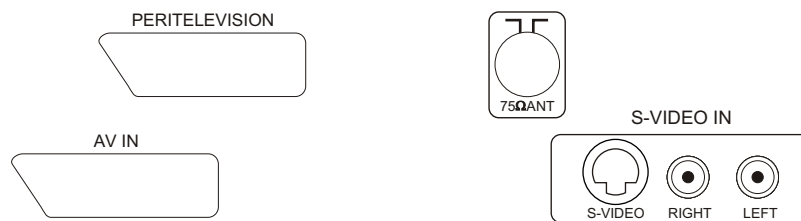
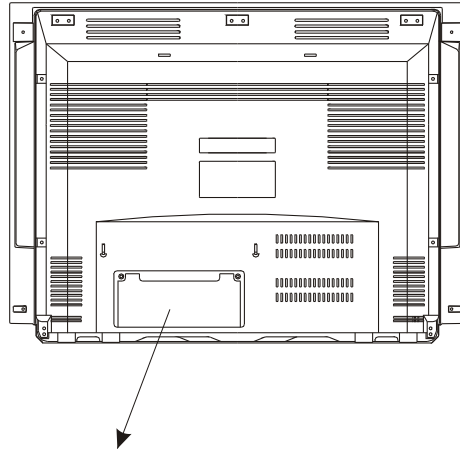
Do not squash power supply cord under the television receiver.

CONTROL LOCATION

1. Main Switch
2. Power Indicator
3. Remote Sensor
4. Side AV In(option)
5. Speakers
6. Program Down / Up Button
7. Volume Down / Up Button
8. Menu Button
9. Mute Button
10. AV/TV Button
11. AV In (Scart Jack)
12. Peritelevision(Scart Jack)
13. Antenna Input Socket(75 Ohm)
14. S-Video In
15. AC Power Cord



INPUT AND OUTPUT TERMINALS



It can be connected to the following appliances: video-tape recorder, video camera, tape recorder and audio amplifier, etc.....

*Please keep AC cord unplugged when connecting TV system.

*Donot Connect Side AV IN and AV IN together.

OPERATION INSTRUCTIONS

WARNING: The Main Power Switch (No.1 of the Control Location page) is the Manually Operated Mechanical Switch . The Remote control can not cut off power supply to the TV set. For safety purpose, push Main Switch to the OFF position and make sure the Power indicator go out when not use for long time. Push the power "ON/OFF" switch to the ON position, and then Power indicator will light up, the picture (or blue screen) will appear within a few seconds.

MENU BUTTON

1. Press this button to select PICTURE SOUND TIME SETUP TUNE EXCHANGE menu cyclically.



2. After entering into each menu, you can select submenu which you will adjust with PROG. +/- Buttons or (GREEN)/BLUE buttons, Then you can adjust it with VOL. +/- Buttons or the +(RED)/-(YELLOW).

Picture Button

PICTURE	
CONTRAST	75
BRIGHTNESS	48
COLOUR	48
SHARPNESS	75
HUE	0
BLACK STRETCH	OFF
TILT	0
COMB FILTER	ON

1. You can select the CONTRAST.BRIGHTNESS.COLOUR.SHARPNESS.HUE. BLACK STRETCH.TILT.COMB FILTER item by pressing PROG +/- buttons Or ↑ (GREEN) / ↓ (BLUE) buttons.

2. You can adjust the CONTRAST.BRIGHTNESS.COLOUR.SHARPNESS.HUE.
3. TILT item by press VOL +/- buttons or +(RED) / -(YELLOW) buttons.

*HUE is displayed only for NTSC system.

*TILT and COMB FILTER item is optional.

*TILT is for GEOMAGNETISM, You can change the TILT to move picture to a better position.

*When you set comb-filter ON, the image quality will be improved sharply.

*Comb-filter cannot be set ON when no colour or in S-VIDEO mode.

Sound Button

SOUND	
VOLUME	6
BASS	50
TREBLE	50
BALANCE	0
TRUBASS	ON
SURROUND	ON

1. You can select the VOLUME.BASS.TREBLE.BALANCE.TRUBASS.SURROUND item with the PROG +/- buttons or the ↑ (GREEN) / ↓ (BLUE) buttons.

2. You can adjust VOLUME.BASS.TREBLE item with VOL +/- buttons or +(RED) / -(YELLOW) buttons.

3. You can turn the TRUBASS.SURROUND item ON or OFF with VOL +/- buttons or +(RED) / -(YELLOW) buttons.

*TRUBASS item is optional.

*TRUBASS technology is incorporated under license from SRS Labs, Inc.

OPERATION INSTRUCTIONS

TIMERS

TIME	
CLOCK	--:--
ON TIME	--:--
ON PROG	1
OFF TIME	--:--
SLEEP TIMER	20
REMIN TIME	--:--
REMIN PROG	1

1.CLOCK

Select hour or minute with PROG +/- buttons or ↑(GREEN) / ↓(BLUE) buttons

Adjust CLOCK time with VOL +/- buttons or +(RED) / -(YELLOW) buttons

You can press CLOCK buttons to display currently clock time.

2.ON TIME

Select hour or minute with PROG +/- buttons or ↑(GREEN) / ↓(BLUE) buttons.

Adjust ON TIME with Vol +/- buttons +(RED) / -(YELLOW) buttons.

3.ON PROG.

Select ON PROGRAM with VOL+ or +(RED) buttons.

4.OFF TIMER

Select hour or minute with PROG +/- buttons or ↑(GREEN) / ↓(BLUE) buttons.

Adjust REMIND time with VOL +/- buttons or +(RED) / -(YELLOW) buttons.

5.SLEEP TIMER

Set SLEEP TIME with VOL +/- buttons or +(RED) / -(YELLOW) buttons.

6.REMINDER TIMER

Select hour or minute with PROG +/- buttons or ↑(GREEN) / ↓(BLUE) buttons.

Adjust REMIND TIME with VOL +/- buttons or +(RED) / -(YELLOW) buttons.

7.REMIN PROG

Select REMIND PROGRAM with VOL +/- buttons or +(RED) / -(YELLOW) buttons.

* Timer function need resetting when you switch off the TV set by the main power switch or unplugging the power cord, and which runs normally when by remote control.

OPERATION INSTRUCTIONS

SETUP Button

SETUP	
LANG.	ENGLISH
BACK GROUND	ON
NOISE REDUCE	OFF
CHILD LOCK	OFF
CALENDAR	

You can select the item by pressing PROG+/- buttons or ↑ (GREEN)/↓ (BLUE) Buttons.
then you can adjust it by Vol+/- buttons or +(RED)/-(YELLOW) buttons.

1.LANGUAGE

You can select the on-screen display language.

2.BACK GROUND

Press VOL +/- buttons or +(RED) / -(YELLOW) buttons to set it ON or OFF.For BACKGROUND,only when no signal is input in TV mode.

3.NOISE REDUCE

Press VOL +/- buttons or +(RED) / -(YELLOW) buttons to set it ON or OFF.For Noise REDUCE, only in TV mode.

4.CHILD LOCK

Press VOL +/- buttons or +(RED) / -(YELLOW) buttons to set it ON or OFF.
If you set it ON,the key on the TV set is disable and only the remote control functions.

5.CALENDAR

Press VOL +/- buttons or +(RED) / -(YELLOW) buttons to enter into CALENDAR menu.

* CALENDAR item is optional . Please see actual TV set.

CALENDAR

Y:2002			M:12			D:12		
S	M	T	W	T	F	S		
1	2	3	4	5	6	7		
8	9	10	11	12	13	14		
15	16	17	18	19	20	21		
22	23	24	25	26	27	28		
29	30	31						

1.Press VOL +/- buttons or +(RED) / -(YELLOW) buttons to select YEAR,MONTH or DATE.

2.Press PROG +/- buttons or (GREEN) / (BLUE) buttons to adjust YEAR,MONTH or DATE.

3.Press MENU Button to return.

OPERATION INSTRUCTIONS

TUNE MENU

TUNE	
COLOUR SYS	AUTO
SOUND SYS	M
BAND	VHF-L
SKIP	OFF
PROGRAM	2
SEARCH	
FINE TUNE	
AUTO SEARCH	

You can select the item by press the PROG+/- buttons or the ↑ (GREEN) / ↓ (BLUE) buttons, move to the menu you select and then do as follows.

1.COLOUR SYS

Press VOL +/- buttons or +(RED) / -(YELLOW) buttons to set the colour system.

2.SOUND SYS

Press VOL +/- buttons or +(RED) / -(YELLOW) buttons to set the sound system.

3.BAND

Press VOL +/- buttons or +(RED) / -(YELLOW) buttons. You can select the Band VHF-L, VHF-H or UHF.

▶ VHF-L — VHF-H — UHF

4.SKIP

Press VOL +/- buttons or +(RED) / -(YELLOW) buttons to set skip on or off, when you set skip on, this program will be hidden.

5.PROGRAM

Press VOL +/- buttons or +(RED) / -(YELLOW) buttons to set the PROGRAM number.

6.FINE TUNE

For better quality with VOL +/- buttons or +(RED) / -(YELLOW) buttons.

7.SEARCH

Press VOL +/- buttons or +(RED) / -(YELLOW) buttons to search for next or previous available program, the set will automatically stop while the signal is received.

8.AUTO SEARCH

Press VOL +/- buttons or +(RED) / -(YELLOW) buttons, the TV set will automatically search in 3 bands and store every program.

*In AV mode, only COLOUR SYS displayed under this menu.

*After fine tune. The colour of program number will change from GREEN to YELLOW.

EXCHANGE MENU

EXCHANGE	
PROGRAM	1
PROGRAM	1
EXCHANGE	

In AV mode, this item will not be displayed.

Select the item by pressing the PROG+/- buttons or the ↑ (GREEN) / ↓ (BLUE) buttons.

1.PROGRAM 1

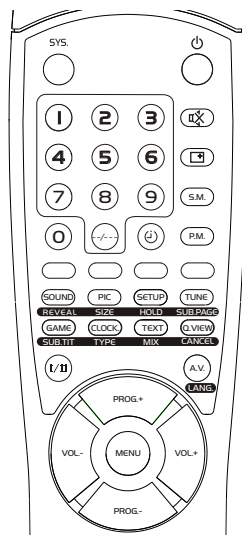
Press VOL +/- buttons or +(RED) / -(YELLOW) buttons to adjust PROGRAM 1.

2.PROGRAM 2

Press VOL +/- buttons or +(RED) / -(YELLOW) buttons to adjust PROGRAM 2.

3. Press VOL +/- buttons or +(RED) / -(YELLOW) buttons to exchange PROGRAM 1 and PROGRAM 2.

LOCATION OF CONTROL (REMOTE HANDSET UNIT)



POWER (STAND BY) BUTTON (⏻)

Press this button to turn the TV on/off. Press any Number Button or Program Up/Down Button, picture and sound will appear on within a few seconds.

SLEEP BUTTON

This key is used to set the sleep timer from in 10 minutes step up to three hours. When the preset time runs

To 0, the TV set will go into stand by mode.

*If no program received, the TV set will switch to stand by automatically in 5 minutes.

SOUND SYSTEM BUTTON (SYS.)

When the sound system is incorrect, Press this button to select the correct sound system.

STEREO/MONO DUAL I/II BUTTON (I/II) (OPTION)

The third line on the top right corner of the screen automatically changes to green when a NICAM broadcast is received.

As stereo program is received. You can select STEREO, MONO, or FM by pressing the ST/MO/I/II button.

As bilingual program is received. You can select DUAL-1, DUAL-2 or FM by pressing the ST/MO/I/II button.

Remark: FM: Standard mode STEREO: Stereo mode MONO: Mono mode

DUAL-1: multi sound channel for language 1 DUAL-2: multi sound channel for language 2

PROGRAM UP/DOWN BUTTON (PROG +/-)

Press the Program Up Button to select the program forwards.

Press the Program Down Button to select the program backwards.

(Use this button for Page Up/Down to increase/decrease page number in TELETEXT mode.)

LOCATION OF CONTROL (REMOTE HANDSET UNIT)

VOLUME UP/DOWN BUTTONS (VOL +/-)

Press Volume Up/Down Buttons to adjust sound level.

PROGRAM SELECTION BUTTONS(0-9)

Push the number for your desired program and the program indicator will be displayed on the screen.

Press number key 0-199 for program selection.

Press the number keys to select teletext pages in teletext mode.

MUTE BUTTON()

Press once to mute the sound,press again to return to previously set sound level.MENU RECALL BUTTON.

MENU RECALLBUTTON()

Press this button sequential to recall for the program number,system, logo etc on the screen..

SOUND MODE BUTTON(S.M.)

Press this button to select the desired sound mode,USER.SPEECH. THEATERand MUSICcan be selected cyclically.

PICTURE MODE BUTTON(P.M.)

Press this button to select the desired picture mode,RICH.USER.SOFT and STANDARD can be selected cyclically.

DIGIT BUTTON(--/--)

Press this button to select program between 0-199 program.

To select a one-digit number:press "--/—" button to display "--",then press 0-9 to select a number 0-9,or press the number 0-9 direvtly.

To select a two-digit number:press "--/—" button to display "--".then press 0-9 to select a number 10-99.

To select a three-digit number:press "--/—" button to display "1--".then press 0-9 to select a number 100-199.

COLOUR BUTTONS(RED/YELLOW/GREEN/BLUE)

In TV mode, the ↑ (GREEN)/↓ (BLUE) buttons has the same function as PROG +/- buttons;the+(RED)/-(YELLOW) buttons has the same function as VOL +/--button.

In TELETEXT mode,press these colour buttons,the color of page no of teletext will change to the same colour as that of the buttons.

*Both of the sound mode"SPEECH,MUSIC, THEATER" or picture mode "RICH,SOFT , STANDARD" are fixed by factory,all the change of these settings will be saved into the"USER"mode automatically.

LOCATION OF CONTROL (REMOTE HANDSET UNIT)(TELETEXT OPTION)

MENU BUTTON(MENU/INDEX)

In TV mode, this button is used as MENU command; in TELETEXT mode, used as INDEX key.

MENU: To use MENU button for the turning procedure, please refer to page 7-10 for the details.

INDEX: Press INDEX button to obtain the index page.

AV MODE BUTTON (AV/LANG.)

In TV mode, used as AV command; in TELETEXT mode, used as LANG. key.

AV: Press this button to display external video signal such as VCR or CD video player.

LANG. : Press this button to switch the teletext LANGUAGE such as English or Russian.

SOUND MENU BUTTON(SOUND/RECALL)

In TV mode, used as SOUND menu command; in TELETEXT mode, used as REVEAL key.

SOUND: Press this button to enter into the SOUND menu directly.

RECALL : Sometimes the answers of quizzes, jokes etc are hidden. Press REVEAL button to reveal the hidden information.

PICTURE MENU BUTTON(PIC./SIZE)

In TV mode, used as PICTURE menu command; in TELETEXT mode, used as SIZE key.

PIC.: Press this button to enter into the PICTURE menu directly.

SIZE: The top or bottom half of any page can be enlarged by pressing this button.

SETUP MENU BUTTON(SETUP/HOLD)

In TV mode, used as SETUP menu command; in TELETEXT mode, used as HOLD key.

SETUP: Press SETUP button to enter into the setup menu directly.

HOLD: Sub-pages will scroll automatically. Press HOLD button to hold a sub-page. To release the page, press HOLD again.

TUNE MENU BUTTON(TUNE/SUB.PAGE)

In TV mode, used as TUNE menu command; in TELETEXT mode, used as SUB.PAGE key.

TUNE: Press this button to enter into the TUNE menu directly.

SUB.PAGE: Some pages attach sub-page, Page number may contain several subpages which are automatically paged by the TV station. Press this button once. 0001 will be displayed on screen, use number key(0-9) to look for other sub-pages if available. If there is no sub-page, **** will be displayed. To cancel this, press this button again.

LOCATION OF CONTROL (REMOTE HANDSET UNIT)(TELETEXT OPTION)

GAME BUTTON(GAME/SUB.TITLE)

In TV mode, used as GAME command; In TELETEXT mode, used as SUB.TITLE key.

GAME: You can play the game on TV. To speed up with PRGO-, transform with PRGO+. Shift left with VOL-, shift right with VOL+.

SUB.TITLE: Press SUB.TITLE button to view the sub-titles.

CLOCK BUTTON(CLOCK/TYPE)

In TV mode, used as CLOCK command; In TELETEXT mode, used as TYPE key.

CLOCK: Display the time on the top right corner of the screen.

TYPE: Press this button to switch the teletext TYPE such as west/east type.

TEXT/BUTON(ON/MIX/OFF)

Press this button to display TELETEXT signal, mix TELETEXT page with TV signal and return to TV.

Note: To avoid mixing of External R.G.B while viewing Teletext. Disconnect scart plug or switch off external R.G.B Source.

Q.VIEW BUTTON(Q.VIEW/CANCEL)

In TV mode, used as Q.VIEW command; In TELETEXT mode, used as CANCEL key.

Q.VIEW: Press this button to return to the previously viewed program.

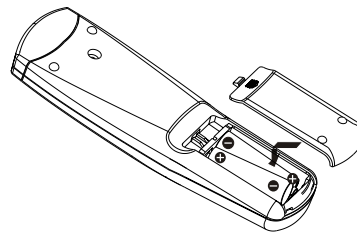
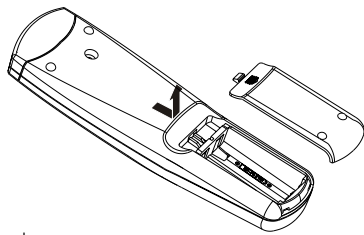
CANCEL: If you want to watch TV but not cancel the TELETEXT mode completely. Press the CANCEL button. When the last selected page is updated, the page number will be appeared at the top of the TV screen. Press the CANNEL button again to reveal the page.

BATTERY INSTALLATION (REMOTE CONTROL UNIT)

1. Remove the battery cover.
2. Insert the 2 UM3-AA 1.5V batteries making sure the polarity (+ or -) of the batteries matches the polarity marks inside the unit.
3. Replace the battery cover.

Replace with new batteries when the TV set begins to show the following symptoms:

Operation is unsteady or erratic. Sometimes the TV set does not function with Remote Control Unit.



Remark:

- 1) Alkaline Batterie Recommended
- 2) Remove batteries when they are exhausted or if the remote control is not to be used for a long time.

THE CAUSES OF INTERFERENCE

Incorporated in your TV receiver are the most up-to-date devices to eliminate interference. Local radiation however, can create disturbances which visibly affect your picture. Proper installation, a good aerial are your best safe-guards against these disturbances.

SNOW

Weak TV signals from long distant stations result in an instead picture and give the effect of falling snow. An antenna adjustment or antenna amplifier may be needed.

RF INTERFERENCE

Moving ripples across the screen are caused by nearby transmitting or receiving-short-wave radio equipment.

GHOST

Multiple image caused by TV signals reflected back from surrounding buildings, hills, aircraft, etc. is minimized by correct aerial positioning.

DIATHERMY

Herringbone pattern and partial picture loss can result from the operation of diathermy equipment from a nearby doctor's surgery or hospital.

CAR IGNITION

Nearby cars and electrical motors can cause small streaks across the picture or make the picture roll.

SERVICE TIPS

BEFORE CALLING FOR SERVICE, HAVE YOU
CHECKED (☒) THE FOLLOWING CHART
ON SYMPTOMS AND SOLUTIONS?

Symptoms	Solution											
	Try different channel, if OK, probably station trouble	Check aerial connections on back of set	Check aerial for broken wires	Re-orient aerial (if indoor type)	Probably local interference, such as an appliance	Adjust fine tuning control	Adjust brightness control	Adjust contrast control	Check if station is broadcasting colour	Check if system switch is correct	Check if on/off switch is "on"	Check Batteries in Remote control
No picture, no sound	●	●	●			●				●	●	
Poor sound, picture OK	●			●	●	●				●		
Poor picture, sound OK	●	●	●	●	●	●				●		
Weak picture	●	●	●	●	●	●				●		
Blurred picture	●		●	●	●	●				●		
Double image	●	●	●	●	●							
Lines in picture	●		●	●	●	●						
Distorted picture	●		●	●	●	●				●		
Weak reception on some channels	●	●	●	●	●	●				●		
Horizontal bars			●	●	●							
Picture rolls vertically	●		●	●	●					●		
Poor colour	●	●	●	●	●	●	●		●	●		
No colour	●	●	●	●	●			●	●	●		
Misoperation of Remote control												●
No Remote control												●
On Screen Display Control outside the screen									●			

